

Stereochemistry of heterocycles - VI. Study of the conformations of 2,5-dialkyl-1,3-dioxanes by means of dipole moments

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Abstract

The conformations of stereoisomeric 2,5-dialkyl-1,3-dioxanes were studied by means of dipole moments (DM), and it was shown that the low-boiling isomers have a chair conformation or a somewhat distorted symmetrical boat conformation, while the high-boiling isomers have a chair conformation with diequatorial orientation of the substituents. The DM measurements lead to values for the ketals which are closest to those calculated for the chair conformation. © 1973 Consultants Bureau, a division of Plenum Publishing Corporation.

<http://dx.doi.org/10.1007/BF00945488>
